

CRIMPING DEVICE FOR CRANIAL CRUCIATE  
LIGAMENT STABILIZATION

ABSTRACT OF THE DISCLOSURE

A cranial cruciate ligament stabilization system comprises of a surgical  
5 tensioning device that applies accurate and precise tension to the suture, a surgical  
implant crimp clamp when crimped secures the suture and a crimping device that  
accurately and precisely crimps the surgical crimp clamp. The tensioning device is  
placed over the suture once the crimp clamps are positioned. The surgeon than squeezes  
the handle that will in turn open the distal tips, therefore, applying tension to the suture.  
10 The tensioning device, having a ratcheting mechanism, allows for the surgeon to test for  
the appropriate tension through out the tensioning process. Once the desired tension is  
achieved the surgeon will crimp the primary or center crimp clamp, which is already in  
place, using the crimping device. The crimp clamp has physical and mechanical  
properties that ensures that it can be crimped simply and hold its deformed state once it  
15 is crimped. The crimping device has specific geometry within each of its jaws. The  
geometry ensures that the crimping device crimps the crimp clamp to prevent over  
crimping that can lead to breaking of the suture and to prevent under crimping that can  
lead to slipping of the suture within the crimp clamp.